

CHALLENGE



What are two things to do at Sleeping Bear Dunes National Lakeshore?

Hike, bike, swim, etc.

Go to the large map by the entrance of the visitor center. Find the outline of the Sleeping Bear Dunes National Lakeshore.

Name two lakes found within the Lakeshore.

Bass Lake, Shell Lake, School Lake, N. Bar Lake, Otter Lake, Deer Lake, Loon Lake, Mud Lake, Florence Lake, Lake Manitou

Read the Legend of the Sleeping Bear. What are the names of two islands?

North Manitou Island

South Manitou Island

GEOLOGY

What geological event has shaped the land of northern Michigan?

Glaciation / shoreline reshaping

How thick were the glaciers?

In park area, approx. 1200 feet

In Lake Michigan basin, approx. half a mile

Read about one of the rocks on display.

How does it look like the rock was formed?

By lava (Igneous), by heat and pressure (Metamorphic), by deposit (Sedimentary)

Fossils can help us determine the following things:

Past climate, ecological environments,

age of rocks, history of life on earth

Read about the Petoskey stone and finish the following sentence:

"Each cell in the structure housed an

individual animal."

Are Petoskey stones protected within the Lakeshore? ☒ Yes ☐ No

Read the paragraph with the picture of a dune and finish the following sentence. "A dune is simply

a pile of sand deposited by the wind."

Sand comes from break down of rock.

Play with the magnet. What type of sand does it pick up?

Magnetite

What is another name for "fossil lightning bolts"?

fulgurite

How is a "ventifact" formed?

rock polished and shaped by wind-blown sand

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NATIVE PEOPLES

List three crops that Native American people grew here during the summertime.

squash, corn, beans

During the fall they would gather

nuts

and then travel to

hunting

and fishing

_____ camps

during the winter. In the early spring they would return to collect sap from the

maple

trees

to make sugar .

EARLY SETTLERS

What are two possible ways that a settler could make a living?

lumbering, farming, etc.

What are three things the Great Lakes ore carrier transported?

grain, coal, ore

What did lumbermen use to move logs in this area?

trains, boats, "big wheels," horses, oxen

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BEECH/MAPLE FOREST

Name three plants you might see in a beech/maple forest.

American beech, sugar maple, ironwood, basswood, black cherry, eastern hemlock, spring beauty, jack-in-the-pulpit, dutchman's breeches, American spikeweed, white baneberry, large-flowered trillium, trout lily, large-flowered bellwort, yellow lady's slipper

Name three animals you might see.

oppossum, ruffed grouse, white-tailed deer, cougar, flying squirrel, great horned owl, gray squirrel, coyote, ovenbird, wild turkey, American redstart, red-eyed vireo

Find a tree with smooth gray bark.

American beech

Find a cone bearing tree.

eastern hemlock

Find a fruit bearing tree.

black cherry

PINE/OAK FOREST

What is your favorite animal that lives in this zone?

red squirrel, raccoon, woodchuck, striped skunk, porcupine, sharp-shinned hawk, pileated woodpecker, American woodcock, bobcat

Name two types of pines found in a pine/oak forest.

red pine, eastern white pine

Name two types of oaks found in a pine/oak forest.

northern red oak

white oak

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SHRUB ZONE

How is the shrub zone different from the other zones?

narrow habitat, most animals are

transient

Find the picture of poison ivy.

Remember, "Leaves of three,
leave it be!"

ACTIVE DUNES

Which plant grows only in the active dunes? It is on the Federal list of threatened species

Pitcher's thistle

BEACH

Name two birds that are commonly found on the beach.

piping plover, ring-billed gull

What is one mammal you might spot along the beach?

Otter

BONUS!!

How tall is the inside tower of the visitor center? Hint: look for a helpful sign or ask a ranger!

about 50 feet tall